

## APPENDIX A

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

(43) International Publication Date  
18 October 2001 (18.10.2001)

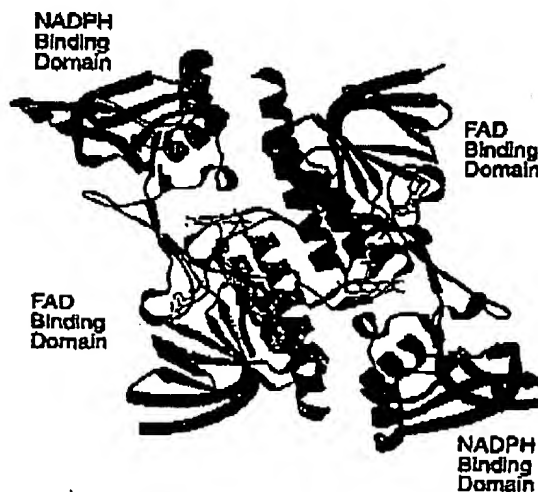
PCT

(10) International Publication Number  
WO 01/77309 A2

- (51) International Patent Classification: C12N 9/02, G06F 17/50, C12Q 1/26
- (21) International Application Number: PCT/US01/10678
- (22) International Filing Date: 3 April 2001 (03.04.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/195,055 6 April 2000 (06.04.2000) US
- (71) Applicant (for all designated States except US): PHARMACIA & UPJOHN COMPANY (US/US); 301 Hewitt Street, Kalamazoo, MI 49001 (US).
- (72) Inventor: and
- (73) Inventor/Applicant (for US only): BENSON, Timothy, E. (US/US); 2690 Timberleaf Lane, Kalamazoo, MI 49006 (US).
- (74) Agent: SANDBERG, Victoria, A.; Mauting, Rensch & Gebhardt, P.A., P.O. Box 581415, Minneapolis, MN 55458-1415 (US).
- (81) Designated States (national): AU, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HN, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (CH, GM, KI, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, MC, NL, PT, SI, TR), OAPI patent (BF, BJ, CR, CO, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published: without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: CRYSTALLIZATION AND STRUCTURE DETERMINATION OF STAPHYLOCOCCUS AUREUS THIOREDOXIN REDUCTASE

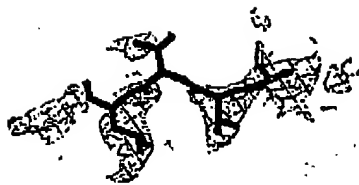


(57) Abstract: An unliganded form of *Staphylococcus aureus* thioredoxin reductase (*S. aureus* TrxB) has been crystallized, and the three dimensional x-ray crystal structure has been solved to 2.3 Å resolution. The x-ray crystal structure is useful for solving the structure of other molecules or molecular complexes, and designing inhibitors of *S. aureus* thioredoxin reductase.

BEST AVAILABLE COPY

APPENDIX A

5/15



*Fig. 5a*



*Fig. 5b*



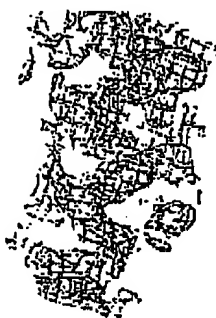
*Fig. 5c*



*Fig. 5d*



*Fig. 6a*



*Fig. 6b*



*Fig. 6c*



*Fig. 6d*

BEST AVAILABLE COPY